

Serial No. 10/813,053
Docket No.: F-50(ISZ)/MS(415000208)
ONO.025

AMENDMENTS TO THE CLAIMS:

1. (Canceled)
2. (Currently amended) A shift actuator for a transmission, ~~according to claim 1~~
comprising:
a first electromagnetic solenoid for operating a shifting mechanism of the
transmission to a first shifted position;
a second electromagnetic solenoid for operating the shifting mechanism to a second
shifted position;
a neutral operation member mounted on the shifting mechanism for bringing the
shifting mechanism to a neutral position lying between the first shifted position and the
second shifted position;
a neutral limitation member movable between a first position, in which said neutral
operation member is permitted to be operated to the first shifted position and to the second
shifted position, and a second position, in which said neutral operation member is brought to
the neutral position; and
an electromagnetic solenoid for neutral, which brings said neutral limitation member
to the second position,
wherein said neutral limitation member has two operation surfaces formed in a V-
shape so as to act on said neutral operation member, and, when brought to said the second
position, brings said neutral operation member to said the neutral position and limits its
operation.

3. (Currently amended) A shift actuator for a transmission, ~~according to claim 1,~~
~~wherein: comprising:~~

_____ a first electromagnetic solenoid for operating a shifting mechanism of the
transmission to a first shifted position;

_____ a second electromagnetic solenoid for operating the shifting mechanism to a second
shifted position;

_____ a neutral operation member mounted on the shifting mechanism for bringing the
shifting mechanism to a neutral position lying between the first shifted position and the
second shifted position;

_____ a neutral limitation member movable between a first position, in which said neutral
operation member is permitted to be operated to the first shifted position and to the second
shifted position, and a second position, in which said neutral operation member is brought to
the neutral position; and

_____ an electromagnetic solenoid for neutral, which brings said neutral limitation member
to the second position, wherein:

said neutral operation member comprises a cam ~~that is~~ mounted on a shifting shaft
~~constituting said of the~~ shifting mechanism, ~~and has~~ said cam having a cam surface on the
outer periphery thereof; and

said neutral limitation member has a hole with cam operation surfaces that surround
said cam and act on said cam surface and, when said neutral limitation member is brought to
~~said the~~ second position, ~~brings said cam operation surfaces bringing said cam to said the~~

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neutral position and ~~limits~~limit its operation.

4. (Currently amended) A shift actuator for a transmission, ~~according to claim 1,~~
~~wherein:~~ comprising:

a first electromagnetic solenoid for operating a shifting mechanism of the
transmission to a first shifted position;

a second electromagnetic solenoid for operating the shifting mechanism to a second
shifted position;

a neutral operation member mounted on the shifting mechanism for bringing the
shifting mechanism to a neutral position lying between the first shifted position and the
second shifted position;

a neutral limitation member movable between a first position, in which said neutral
operation member is permitted to be operated to the first shifted position and to the second
shifted position, and a second position, in which said neutral operation member is brought to
the neutral position; and

an electromagnetic solenoid for neutral, which brings said neutral limitation member
to the second position, wherein:

said neutral operation member comprises a roller support member ~~that is~~ mounted on
a shifting shaft ~~constituting said of the~~ shifting mechanism and ~~protrudes~~protruding in the
radial direction of the shifting shaft, and a roller ~~that is~~ supported at an end of said roller
support member and ~~can rotate~~rotatable on ~~the~~ an axis in parallel with the shifting shaft; and

said neutral limitation member has a hole with roller operation surfaces that surround

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said roller support member and said roller, ~~and act~~ said roller operation surfaces acting on
said roller and, when said neutral limitation member is brought to said second position, ~~brings~~
bringing said roller to ~~said the~~ neutral position and ~~limits-limit~~ its operation.

5. (Currently amended) A shift actuator for a transmission according to claim 4, ~~wherein~~
~~provision is made of~~ further comprising a guide portion for guiding the movement of said
neutral limitation member between ~~said the~~ first shifted position and ~~said the~~ second shifted
position.

6. (Currently amended) A shift actuator for a transmission according to claim 5, ~~wherein~~
further comprising a slide bush made of a material having a small coefficient of friction, ~~is~~
said slide bush being fitted to said guide portion.